Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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Report Date:11/17/2008

Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
				M	ale		
Battelle Northwest Battelle Northwest Battelle Northwest Battelle Northwest Battelle Northwest Battelle Northwest Battelle Northwest	052001105 059601105 058800405 059700601 058800603 059700805 059302507	07/14/03 06/04/01 09/13/99 05/25/00 08/06/01 10/01/01 06/16/03	729 729 729 726 729 729 729	50 (5) 50 (5) 50 (5) 50 (5) 50 (5) 49 (5) 50 (5)	23(678) 26(676) 31(686) 32(693) 27(680) 27(683) 20(668)	526.9 540.9 519.5 529.7 537.2 525.0 536.2	1-Bromopropane Cumene Divinylbenzene Methyl isobutyl ketone alpha-Methylstyrene Propargyl alcohol Tetralin
				Fer	male		
Battelle Northwest	052001105 059601105 058800405 059700601 058800603 059700805 059302507	07/14/03 06/04/01 09/13/99 05/25/00 08/06/01 10/01/01 06/16/03	730 731 731 727 730 730 730	50 (5) 50 (5) 50 (5) 50 (5) 50 (5) 50 (5) 50 (5)	34(702) 21(674) 33(679) 35(694) 27(647) 29(678) 31(682)	386.5 356.9 355.3 365.6 351.9 353.3 370.8	1-Bromopropane Cumene Divinylbenzene Methyl isobutyl ketone alpha-Methylstyrene Propargyl alcohol Tetralin

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			Male	Female
#All Organs: Benign Tumors				
		48/50 (96%) 50/50 (100%) 48/50 (96%)	48/50 (96%) 49/50 (98%) 48/50 (96%) 48/49 (98%)	45/50 (90%) 44/50 (88%) 43/50 (86%) 44/50 (88%) 43/50 (86%) 42/50 (84%) 40/50 (80%)
Overall Incidence	Total	339/349 (97.13%)	Mean 97.14% SD 1.57%	Total 301/350 (86%) Mean 86% SD 3.27%
#All Organs: Malignant Tumors	•••••			
ū		38/50 (76%) 31/50 (62%) 33/50 (66%)	36/50 (72%) 29/50 (58%) 32/50 (64%) 32/49 (65%)	26/50 (52%) 24/50 (48%) 17/50 (34%) 22/50 (44%) 25/50 (50%) 26/50 (52%) 25/50 (50%)
Overall Incidence	Total	231/349 (66.19%)	Mean 66.19% SD 6.06%	Total 165/350 (47.14%) Mean 47.14% SD 6.41%
#All Organs: Malignant and Benign Tu				
		50/50 (100%) 50/50 (100%) 50/50 (100%)	50/50 (100%) 50/50 (100%) 50/50 (100%) 49/49 (100%)	49/50 (98%) 50/50 (100%) 46/50 (92%) 46/50 (92%) 46/50 (92%) 47/50 (94%) 46/50 (92%)
Overall Incidence	Total	349/349 (100%)	Mean 100% SD 0%	Total 330/350 (94.29%) Mean 94.29% SD 3.35%
#All Organs: Hemangioma	•••••			
-		0/50 (0%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 1/50 (2%) 0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29% SD 0.76%	Total 1/350 (0.29%) Mean 0.29% SD 0.76%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

II. NUVZUUO

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#All Organs: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 2/50 (4%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	2/350 (0.57%)	Mean 0.57%	SD 1.51%
#All Organs: Hemangiosarcoma or He					•••••			
•	·	0/50 (0%) 1/50 (2%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 2/50 (4%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	3/350 (0.86%)	Mean 0.86%	SD 1.57%
#All Organs: Histiocytic Sarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 2/50 (4%) 2/50 (4%)	0/50 (0%) 0/50 (0%)	2/50 (4%) 0/50 (0%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	6/350 (1.71%)	Mean 1.71%	SD 2.14%
All Organs: Leukemia: Erythrocytic	•••••				•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

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Species: RATS Strain: F344

Length of Study: CHRONIC

Vehicle: AIR

			Male		Fem	ale
#All Organs: Leukemia: Lymphocytic Undifferentiated	c, Monocytic, M	ononuclear, or				
Ondinerentiated		29/50 (58%) 25/50 (50%) 25/50 (50%)		(43%)	16/50 (32%) 12/50 14/50 (28%) 18/50 17/50 (34%)	(24%) 10/50 (20%) (36%) 20/50 (40%)
Overall Incidence	Total	174/349 (49.86%)	Mean 49.84% SD 5.	15% Total 10	07/350 (30.57%) Mea	ın 30.57% SD 7%
#All Organs: Malignant Lymphoma: or Undifferentiated Cell		nphocytic, Mixed, NOS,				
		0/50 (0%) 0/50 (0%) 0/50 (0%)		(0%)	0/50 (0%) 0/50 0/50 (0%) 0/50 0/50 (0%)	(0%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%	6 Total 0/	/350 (0%) Mea	n 0% SD 0%
#All Organs: Mesothelioma: Benign				······		
•		0/50 (0%) 0/50 (0%) 0/50 (0%)		(0%)	0/50 (0%) 0/50 0/50 (0%) 0/50 0/50 (0%)	(0%) 0/50 (0%) (0%) 1/50 (2%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%		` '	n 0.29% SD 0.76%
#All Organs: Mesothelioma: Benign,	Malignant, NOS	 S		······		
,	3 , -	0/50 (0%) 1/50 (2%) 0/50 (0%)		(2%)	0/50 (0%) 0/50 0/50 (0%) 0/50 0/50 (0%)	(0%) 0/50 (0%) (0%) 1/50 (2%)

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#All Organs: Mesothelioma: Malignant								
-		0/50 (0%) 1/50 (2%) 0/50 (0%)	3/50 (6%) 0/50 (0%)	2/50 (4%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	7/349 (2.01%)	Mean 2.01%	SD 2.31%	Total	0/350 (0%)	Mean 0%	SD 0%
All Organs: Osteoma	••••••				•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
All Organs: Osteosarcoma			•••••					•••••
		2/50 (4%) 0/50 (0%) 3/50 (6%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
verall Incidence	Total	7/349 (2.01%)	Mean 2.01%	SD 2.31%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
All Organs: Osteosarcoma or Osteoma	•••••				•••••			
		2/50 (4%) 0/50 (0%) 3/50 (6%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	7/349 (2.01%)	Mean 2.01%	SD 2.31%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Adrenal Cortex:								
		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		3/50 (6%) 0/50 (0%)	0/50 (0%) 2/50 (4%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/50 (0%) 1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	8/50 (16%) 13/350 (3.71%)	Mean 3.71%	SD 5.94%
Adrenal Cortex:								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Adrenal Medulla: Ganglioneuroma								
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/349 (0%)	Mean 0%	SD 0%
Adrenal Medulla: Hemangioma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/349 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Adrenal Medulla: Pheochromocytoma Benig	n							
		10/50 (20%) 8/50 (16%) 9/50 (18%)	7/50 (14%) 8/50 (16%)	12/50 (24%) 8/49 (16%)		2/50 (4%) 3/50 (6%) 2/50 (4%)	1/50 (2%) 1/49 (2%)	2/50 (4%) 1/50 (2%)
verall Incidence	Total	62/349 (17.77%)	Mean 17.76%	SD 3.33%	Total	12/349 (3.44%)	Mean 3.43%	SD 1.51%
Adrenal Medulla: Pheochromocytoma Comp					••••••			
·		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		1/50 (2%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)	0/50 (0%) 0/50 (0%)
verall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%
Adrenal Medulla: Pheochromocytoma Maligi	nant							
		0/50 (0%) 0/50 (0%) 4/50 (8%)	1/50 (2%) 2/50 (4%)	1/50 (2%) 3/49 (6%)		0/50 (0%) 0/50 (0%) 1/50 (2%)	1/50 (2%) 0/49 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	11/349 (3.15%)	Mean 3.16%	SD 3.04%	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%
Adrenal Medulla: Pheochromocytoma: Benig					•••••			
	- · ·	11/50 (22%) 8/50 (16%) 12/50 (24%)	7/50 (14%) 10/50 (20%)	13/50 (26%) 10/49 (20%)		3/50 (6%) 3/50 (6%) 3/50 (6%)	3/50 (6%) 1/49 (2%)	2/50 (4%) 1/50 (2%)
Overall Incidence	Total	71/349 (20.34%)	Mean 20.34%	SD 4.23%	Total	16/349 (4.58%)	Mean 4.58%	SD 1.89%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories Species: RATS Strain: F344

Length of Study: CHRONIC

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Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Bone: Chondrosarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Bone: Chondrosarcoma or Cho	ondroma							
ononarosarosma or one	, mar o ma	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Bone: Chordoma			•••••					
		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.58%	SD 0.99%	Total	0/350 (0%)	Mean 0%	SD 0%
#Bone: Osteoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

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Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Bone: Osteosarcoma								
		1/50 (2%) 0/50 (0%) 3/50 (6%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	6/349 (1.72%)	Mean 1.72%	SD 2.14%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Bone: Osteosarcoma or Osteoma								
		1/50 (2%) 0/50 (0%) 3/50 (6%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	6/349 (1.72%)	Mean 1.72%	SD 2.14%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
*Brain: Astrocytoma Malignant								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/49 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
*Brain: Ependymoma Benign								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/49 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Brain: Ependymoma Malignant								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/49 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
*Brain: Glioma Malignant								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/49 (0%) 0/49 (0%)		1/50 (2%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 1/50 (2%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	3/350 (0.86%)	Mean 0.86%	SD 1.07%
*Brain: Granular Cell Tumor Benig								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/49 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
*Brain: Medulloblastoma Mal								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/49 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Brain: Meningioma Malignant								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/49 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Brain:								
Meningioma: Benign, Mali	gnant, NOS							
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Brain: Oligodendroglioma Benig	n							
g		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Brain:								
Oligodendroglioma Maligr	iant	0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Brain:								
Oligodendroglioma, Glior	ma, or Astroc		0/50 (00/)	0/40 (00/)		4/50 (00/)	0/50 (40/)	0/50 (00/)
		0/50 (0%)	0/50 (0%)	0/49 (0%)		1/50 (2%)	2/50 (4%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	2/50 (4%)	0/50 (0%)
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	5/350 (1.43%)	Mean 1.43%	SD 1.9%
Brain: Osteosarcoma			•••••		•••••		•••••	
		1/50 (2%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
Brain: Schwannoma Malignant								
3		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	,	, ,		0/50 (0%)	` ,	` ,
Overall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Clitoral/Preputial Gland: Adenoma			•••••				•••••	
		4/50 (8%)	0/50 (0%)	0/48 (0%)		3/49 (6%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	3/49 (6%)		0/50 (0%)	0/50 (0%)	4/50 (8%)
		0/50 (0%)	2.22 (070)	J. 15 (070)		0/50 (0%)	(0,0)	(0,70)
Overall Incidence	Total	7/347 (2.02%)	Mean 2.02%	SD 3.49%	Total	8/349 (2.29%)	Mean 2.3%	SD 3.38%
, rotali molucilos	iotai	17541 (2.0270)	WICAIT 2.02/0	OD 3.4370	iotai	0/040 (2.20/0)	WCall 2.5/0	OD 0.0070

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Clitoral/Preputial Gland: Carcinoma								
		2/50 (4%)	0/50 (0%)	0/48 (0%)		1/49 (2%)	2/50 (4%)	0/50 (0%)
		1/50 (2%) 0/50 (0%)	2/50 (4%)	0/49 (0%)		1/50 (2%) 4/50 (8%)	1/50 (2%)	0/50 (0%)
verall Incidence	Total	5/347 (1.44%)	Mean 1.43%	SD 1.9%	Total	9/349 (2.58%)	Mean 2.58%	SD 2.76%
Clitoral/Preputial Gland: Carcinoma or Adenoma								•••••
		6/50 (12%)	0/50 (0%)	0/48 (0%)		4/49 (8%)	3/50 (6%)	0/50 (0%)
		1/50 (2%) 0/50 (0%)	2/50 (4%)	3/49 (6%)		1/50 (2%) 4/50 (8%)	1/50 (2%)	4/50 (8%)
verall Incidence	Total	12/347 (3.46%)	Mean 3.45%	SD 4.44%	Total	17/349 (4.87%)	Mean 4.88%	SD 3.46%
Clitoral/Preputial Gland: Fibrosarcoma								•••••
		0/50 (0%)	0/50 (0%)	0/48 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	1/50 (2%)	0/50 (0%)
verall Incidence	Total	0/347 (0%)	Mean 0%	SD 0%	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%
Clitoral/Preputial Gland: Sarcoma								•••••
		0/50 (0%)	0/50 (0%)	0/48 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/347 (0%)	Mean 0%	SD 0%	Total	0/349 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Clitoral/Preputial Gland: Squamous Cell Papilloma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/48 (0%) 0/49 (0%)		0/49 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/347 (0%)	Mean 0%	SD 0%	Total	0/349 (0%)	Mean 0%	SD 0%
#Ear: Neural Crest Tumor	•••••			•••••				
Neural Crest Fullion		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/350 (0%)	Mean 0%	SD 0%
#Esophagus: Fibrosarcoma	•••••							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Esophagus: Lipoma	• • • • • • • • • • • • • • • • • • • •							
·		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

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Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Eye: Amelanotic Melanoma, Be	enign							
,	J	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Eye: Melanoma Benign								
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Eye: Melanoma Malignant								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Eye: Schwannoma Malignant								
Ç		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Harderian Gland: Carcinoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Harderian Gland: Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Heart: Schwannoma Benign			•••••					•••••
•		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	1/49 (2%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/350 (0%)	Mean 0%	SD 0%
Heart: Schwannoma Malignant					•••••			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
verall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

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Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male	Female	
#Intestine Large: Colon/Re Adenoma	ectum:				
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%) 0/50 0/50 (0%) 0/50 (0%) 0/50 0/50 (0%)	(0%) (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%	Total 0/350 (0%) Mean 0% SD 0	1%
fintestine Large: Colon/Re	ectum:				
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%) 0/50 0/50 (0%) 0/50 (0%) 0/50 0/50 (0%)	(0%) (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%	Total 0/350 (0%) Mean 0% SD 0	
Intestine Large: Colon/Re Carcinoma or Adenom	ectum:				
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%) 0/50 0/50 (0%) 0/50 (0%) 0/50 0/50 (0%)	(0%) (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%	Total 0/350 (0%) Mean 0% SD 0	1%
fintestine Large: Colon/Re Hemangioma					
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%) 0/50 0/50 (0%) 0/50 (0%) 0/50 0/50 (0%)	(0%) (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%	Total 0/350 (0%) Mean 0% SD 0	1%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date:11/17/2008

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Species: RATS Strain: F344

Length of Study: CHRONIC

Route: INHALATION Vehicle: AIR

			Male				Female	
#Intestine Small: Duodenum: Carcinoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Intestine Small: Duodenum: Leiomyoma								
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Carcinoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Granular Cell Tumor Maligr								
eranasa con ramoi mang.		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS
Strain: F344

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Intestine Small: Jejunum: Leiomyoma								
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Intestine Small: Jejunum: Leiomyosarcoma					•••••			
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
fIntestine Small: Site Unspec Carcinoma					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspec Carcinoma or Adenoma					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Species: RATS Strain: F344

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
#Intestine Small: Site Unspe Granular Cell Tumor Mal								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspe Leiomyoma	cified:							
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Intestine Small: Site Unspe Leiomyosarcoma								
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
*Islets, Pancreatic:								
		0/50 (0%) 3/50 (6%) 3/50 (6%)	1/50 (2%) 3/50 (6%)	5/50 (10%) 4/49 (8%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 3/50 (6%)	1/50 (2%) 1/50 (2%)
Overall Incidence	Total	19/349 (5.44%)	Mean 5.45%	SD 3.43%	Total	6/350 (1.71%)	Mean 1.71%	SD 2.14%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date:11/17/2008

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Species: RATS Strain: F344

Length of Study: CHRONIC

Route: INHALATION Vehicle: AIR

			Male		Fema	ale
Islets, Pancreatic:						
		3/50 (6%) 4/50 (8%) 1/50 (2%)	2/50 (4%) 1/50 1/50 (2%) 5/49		1/50 (2%) 1/50 0/50 (0%) 0/50 0/50 (0%)	(2%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	17/349 (4.87%)	Mean 4.89% SE	O 3.29% Total	2/350 (0.57%) Mean	n 0.57% SD 0.98%
Islets, Pancreatic: Carcinoma or Adenoma	•••••					
		3/50 (6%) 7/50 (14%) 4/50 (8%)	3/50 (6%) 6/50 4/50 (8%) 9/49	` ,	1/50 (2%) 2/50 0/50 (0%) 3/50 0/50 (0%)	(4%) 1/50 (2%) (6%) 1/50 (2%)
Overall Incidence	Total	36/349 (10.32%)	Mean 10.34% SE	O 4.64% Total	8/350 (2.29%) Mean	n 2.29% SD 2.14%
Kidney: Pelvis and Transition Carcinoma						
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 0/50 (0%) 0/49		0/49 (0%) 0/50 0/50 (0%) 0/49 0/50 (0%)	(0%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29% SE	0 0.76% Total	0/348 (0%) Mean	n 0% SD 0%
Kidney: Pelvis and Transition Carcinoma or Adenoma						
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 0/50 (0%) 0/49	` ,	0/49 (0%) 0/50 0/50 (0%) 0/49 0/50 (0%)	(0%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29% SE	0 0.76% Total	0/348 (0%) Mea	n 0% SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female				
*Kidney: Pelvis and Transitional Epithelium: Papilloma											
		1/50 (2%) 0/50 (0%) 0/50 (0%)	` ,	0/50 (0%) 0/49 (0%)		0/49 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)			
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/348 (0%)	Mean 0%	SD 0%			
*Kidney: Renal Tubule: Adenoma					•••••						
		1/50 (2%) 0/50 (0%) 0/50 (0%)	(/	0/50 (0%) 0/49 (0%)		0/49 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)			
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	0/348 (0%)	Mean 0%	SD 0%			
*Kidney: Renal Tubule: Carcinoma											
		0/50 (0%) 0/50 (0%) 0/50 (0%)	` ,	0/50 (0%) 0/49 (0%)		1/49 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)			
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%			
*Kidney: Renal Tubule: Carcinoma or Adenoma					•••••						
		1/50 (2%) 0/50 (0%) 0/50 (0%)		0/50 (0%) 0/49 (0%)		1/49 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)			
Overall Incidence	Total	3/349 (0.86%)	Mean 0.86%	SD 1.57%	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%			

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

Vehicle: AIR

Page: 152 Report Date:11/17/2008

Species: RATS Strain: F344

Length of Study: CHRONIC

			Male	Female
Kidney: Renal Tubule: Hemangiosarcoma				
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/49 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%) 0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%	Total 0/348 (0%) Mean 0% SD 0%
Kidney: Renal Tubule: Lipoma				
·		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/49 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%) 0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29% SD 0.76%	Total 0/348 (0%) Mean 0% SD 0%
Kidney: Renal Tubule: Liposarcoma				
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%) 0/50 (0%) 0/49 (0%)	0/49 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%) 0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29% SD 0.76%	Total 0/348 (0%) Mean 0% SD 0%
Kidney: Renal Tubule: Mesenchymal Tumor Benig	an			
	-	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%)	0/49 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/49 (0%) 0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD 0%	Total 0/348 (0%) Mean 0% SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories Species: RATS

Strain: F344 Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Kidney: Renal Tubule: Nephroblastoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/49 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%
*Kidney: Renal Tubule: Sarcoma	•••••				•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/49 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%
*Liver: Cholangioma				•••••				
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
*Liver: Hemangiosarcoma				•••••				
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Liver: Hepatocellular Adenom	a							
		0/50 (0%) 1/50 (2%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	0/350 (0%)	Mean 0%	SD 0%
Liver: Hepatocellular Carcinor	ma							
·		2/50 (4%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	3/349 (0.86%)	Mean 0.86%	SD 1.58%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Liver: Hepatocellular Carcinor	ma or Hepatob	astoma						
·	·	2/50 (4%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	3/349 (0.86%)	Mean 0.86%	SD 1.58%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Liver: Hepatocellular Carcinor								
·	•	2/50 (4%) 1/50 (2%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR Page: 155

			Male				Female	
Liver: Hepatocellular Carcino	ma, Hepatocell	ular Adenoma, or						
Hepatoblastoma		0/50 (40/)	0/50 (00/)	0/50 (00/)		4/50 (00/)	0/50 (00/)	0/50 (00/)
		2/50 (4%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
		1/50 (2%)	0/50 (0%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	5/349 (1.43%)	Mean 1.43%	SD 1.51%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Lung: Alveolar/Bronchiolar A	denoma							
		2/50 (4%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	1/49 (2%)		1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)				0/50 (0%)		
Overall Incidence	Total	4/349 (1.15%)	Mean 1.15%	SD 1.58%	Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%
Lung: Alveolar/Bronchiolar C								
Aiveolai/Bronchiolai Ca	arcinoma	1/50 (2%)	1/50 (2%)	1/50 (2%)		1/50 (2%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)
		1/50 (2%)	0/00 (0/0)	0/40 (070)		0/50 (0%)	0/00 (0/0)	1700 (270)
Overall Incidence	Total	4/349 (1.15%)	Mean 1.14%	SD 1.07%	Total	3/350 (0.86%)	Mean 0.86%	SD 1.07%
	• • • • • • • • • • • • • • • • • • • •		•••••		•••••			
Lung: Alveolar/Bronchiolar Ca Adenoma	arcinoma or Al	veolar/Bronchiolar						
, (401101114		3/50 (6%)	2/50 (4%)	1/50 (2%)		2/50 (4%)	1/50 (2%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	1/49 (2%)		1/50 (2%)	0/50 (0%)	1/50 (2%)
		1/50 (2%)	3,00 (0,0)	(=/5)		0/50 (0%)	2,00 (0,0)	(=,3)
		1/30 (270)						

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F344

Contract/Lab: All Laboratories Species: RATS

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Lung: Hemangiosarcoma								
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
*Lung: Sarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
*Lung: Squamous Cell Carcinoma					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
#Lymph Node: Hemangiosarcoma					•••••			
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Lymph Node, Mesenteric: Sarcoma								
		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
		0/50 (0%)	,	, ,		0/50 (0%)	, ,	, ,
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
Mammary Gland: Adenoma							•••••	•••••
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	2/49 (4%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	3/50 (6%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.58%	SD 1.54%	Total	3/350 (0.86%)	Mean 0.86%	SD 2.27%
Mammary Gland: Carcinoma								
		0/50 (0%)	2/50 (4%)	1/50 (2%)		4/50 (8%)	10/50 (20%)	3/50 (6%)
		2/50 (4%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		5/50 (10%) 3/50 (6%)	3/50 (6%)	7/50 (14%)
overall Incidence	Total	5/349 (1.43%)	Mean 1.43%	SD 1.9%	Total	35/350 (10%)	Mean 10%	SD 5.29%
Mammary Gland: Carcinoma or Adenoma								
		0/50 (0%)	2/50 (4%)	1/50 (2%)		4/50 (8%)	10/50 (20%)	3/50 (6%)
		2/50 (4%) 0/50 (0%)	0/50 (0%)	2/49 (4%)		5/50 (10%) 3/50 (6%)	3/50 (6%)	10/50 (20%)
Overall Incidence	Total	7/349 (2.01%)	Mean 2.01%	SD 2.01%	Total	38/350 (10.86%)	Mean 10.86%	SD 6.41%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Mammary Gland: Fibroadenoma								
		2/50 (4%) 2/50 (4%) 1/50 (2%)	0/50 (0%) 1/50 (2%)	1/50 (2%) 1/49 (2%)		25/50 (50%) 22/50 (44%) 14/50 (28%)	24/50 (48%) 22/50 (44%)	20/50 (40%) 26/50 (52%)
Overall Incidence	Total	8/349 (2.29%)	Mean 2.29%	SD 1.38%	Total	153/350 (43.71%)	Mean 43.71%	SD 8.04%
#Mammary Gland: Fibroma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Mammary Gland: Fibroma, Fibroadenor								
		2/50 (4%) 2/50 (4%) 1/50 (2%)	0/50 (0%) 1/50 (2%)	1/50 (2%) 3/49 (6%)		25/50 (50%) 22/50 (44%) 14/50 (28%)	24/50 (48%) 22/50 (44%)	20/50 (40%) 28/50 (56%)
Overall Incidence	Total	10/349 (2.87%)	Mean 2.87%	SD 1.98%	Total	155/350 (44.29%)	Mean 44.29%	SD 8.83%
Mammary Gland: Fibroma, Fibroadenor	na, Carcinoma, c	or Adenoma						
·	,	2/50 (4%) 4/50 (8%) 1/50 (2%)	2/50 (4%) 1/50 (2%)	1/50 (2%) 3/49 (6%)		27/50 (54%) 26/50 (52%) 16/50 (32%)	31/50 (62%) 24/50 (48%)	22/50 (44%) 31/50 (62%)
Overall Incidence	Total	14/349 (4.01%)	Mean 4.02%	SD 2.33%	Total	177/350 (50.57%)	Mean 50.57%	SD 10.56%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F344

Contract/Lab: All Laboratories Species: RATS

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Mesentery: Fibrosarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Mesentery: Hemangiosarcoma								
·		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Mesentery: Lipoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Mesentery: Rhabdomyosarcoma				•••••				
·		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories Species: RATS

Strain: F344 Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Nose: Adenoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/49 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%
Nose: Chondroma	•••••							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)	0/50 (0%) 0/49 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%
Nose: Squamous Cell Carcino					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/49 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%
Oral Cavity (Oral Mucosa, Papilloma Squamous o	Tongue, Phary		•••••					
,	,	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

4. 4. 1. 4.1. 1. 4.

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
FOral Cavity (Oral Mucosa Squamous Cell Carcin		nx, Tooth, Gingiva):						
·		1/50 (2%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Oral Cavity (Oral Mucosa Squamous Cell Carcin Papilloma	, Tongue, Phary	nx, Tooth, Gingiva):						
·		1/50 (2%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	3/349 (0.86%)	Mean 0.86%	SD 1.07%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Oral Mucosa: Squamous Cell Carcin	oma		•••••			•••••	•••••	
		1/50 (2%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	0/350 (0%)	Mean 0%	SD 0%
Oral Mucosa: Squamous Cell Papillo								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
		0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Page: 162 Report Date:11/17/2008

Species: RATS Strain: F344 Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Male			Female	
*Ovary: Granulosa Cell Tumor Benign				
		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/350 (0%)	Mean 0%	SD 0%
*Ovary:				
Granulosa Cell Tumor Malignant		0/50 (0%)	0/50 (09/)	0/50 (00/)
		0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)
		0/50 (0%)	, ,	
Overall Incidence	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS				
Grandosa sen ramor. Berngn, mangnant, 1100		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%) 1/350 (0.29%)	Mean 0.29%	SD 0.76%
Overall molecules	10141	17000 (0.2070)	WCGIT 0.2570	05 0.70%
*Ovary:				
Granulosa-Theca Tumor Benign		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/50 (0%)	Mean 0%	SD 0%
Overall illefuence	IUlai	0/350 (0%)	IVICALI U70	3D 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups
Route: INHALATION

Report Date:11/17/2008

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Species: RATS Strain: F344

Length of Study: CHRONIC

Vehicle: AIR

			Male				Female	
Ovary: Granulosa-Theca Tum	or Malignant							
						2/50 (4%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence					Total	2/350 (0.57%)	Mean 0.57%	SD 1.51%
*Ovary: Tubulostromal Adenor	ma							
rusuissii siiiai ytusiisi						0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence					Total	0/350 (0%)	Mean 0%	SD 0%
Pancreas: Adenoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Pancreas: Carcinoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F344

4 40 1 40 1

Contract/Lab: All Laboratories Species: RATS

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Pancreas: Carcinoma or Adenoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	` ,	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Pancreas: Mixed Tumor Benign					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	()	0/50 (0%) 2/49 (4%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
overall Incidence	Total	2/349 (0.57%)	Mean 0.58%	SD 1.54%	Total	0/350 (0%)	Mean 0%	SD 0%
Pancreas: Mixed Tumor Malignant					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	` ,	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
verall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Parathyroid Gland: Adenoma					•••••			
		0/46 (0%) 0/49 (0%) 0/48 (0%)	()	0/46 (0%) 0/47 (0%)		0/47 (0%) 0/46 (0%) 0/49 (0%)	0/49 (0%) 0/43 (0%)	0/49 (0%) 0/49 (0%)
Overall Incidence	Total	0/328 (0%)	Mean 0%	SD 0%	Total	0/332 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Peripheral Nerve: Schwannoma Malignant								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Peripheral Nerve: Schwannoma: Benign, Mali	gnant. NOS							
,	3 ,	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
verall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Pituitary Gland: Pars Distalis o Adenoma								
		37/50 (74%) 35/50 (70%) 36/50 (72%)	36/50 (72%) 34/49 (69%)	36/50 (72%) 36/49 (73%)		35/50 (70%) 24/49 (49%) 36/49 (73%)	35/50 (70%) 35/50 (70%)	37/50 (74%) 30/50 (60%)
verall Incidence	Total	250/348 (71.84%)	Mean 71.84%	SD 1.67%	Total	232/348 (66.67%)	Mean 66.64%	SD 9.04%
Pituitary Gland: Pars Distalis o Carcinoma	or Unspecif	ied Site:						
		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/49 (0%) 0/49 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/348 (0.29%)	Mean 0.29%	SD 0.76%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Pituitary Gland: Pars Distal Carcinoma or Adenoma	is or Unspecif	ied Site:						
		37/50 (74%) 35/50 (70%) 37/50 (74%)	36/50 (72%) 34/49 (69%)	36/50 (72%) 36/49 (73%)		35/50 (70%) 24/49 (49%) 36/49 (73%)	36/50 (72%) 35/50 (70%)	37/50 (74%) 30/50 (60%)
verall Incidence	Total	251/348 (72.13%)	Mean 72.12%	SD 1.87%	Total	233/348 (66.95%)	Mean 66.92%	SD 9.2%
Pituitary Gland: Pars Intern Adenoma	nedia:							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/49 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
verall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/348 (0%)	Mean 0%	SD 0%
Pituitary Gland: Pars Intern Carcinoma					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/49 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
verall Incidence	Total	0/348 (0%)	Mean 0%	SD 0%	Total	0/348 (0%)	Mean 0%	SD 0%
Pituitary Gland: Pars Intern Carcinoma or Adenoma	nedia:							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/49 (0%) 0/49 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/348 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/348 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Prostate: Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)				
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%				
*Prostate: Carcinoma or Adenoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)				
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)				
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%				
*Salivary Glands: Sarcoma								
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
*Salivary Glands: Schwannoma Malignant						•••••		
3		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male			Female				
#Seminal Vesicle: Adenoma										
		0/50 (0%)	0/50 (0%)	0/50 (0%)						
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)						
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%						
#Skeletal Muscle: Hemangioma										
-		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%		
#Skeletal Muscle: Hemangiosarcoma										
5		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)		
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%		
#Skeletal Muscle: Lipoma										
F		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/30 (0/8)				0/30 (0/0)				

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Skeletal Muscle: Rhabdomyosarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Skeletal Muscle: Rhabdomyosarcoma or l	Rhabdomvom	a						
·	Í	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Skeletal Muscle: Sarcoma	•••••							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Skin: Basal Cell Adenoma	•••••							
		0/50 (0%) 0/50 (0%) 1/50 (2%)	1/50 (2%) 1/50 (2%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	4/349 (1.15%)	Mean 1.15%	SD 1.07%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F344

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Contract/Lab: All Laboratories

Male Female #Skin: Basal Cell Adenoma or Basosquamous Tumor Benign 1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)1/50 (2%)1/49 (2%)0/50 (0%)0/50 (0%)0/50 (0%)(2%) 1/50 0/50 (0%)**Overall Incidence** 4/349 (1.15%) SD 1.07% SD 0% Total Mean 1.15% Total 0/350 (0%)Mean 0% Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma 0/50 (0%)0/50 (0%)1/50 (2%)1/50 (2%)0/50 (0%)0/50 0/50 (0%)(2%)(2%)0/50 (0%)0/50 (0%)(2%) 1/50 1/49 1/50 1/50 (2%)0/50 (0%)**Overall Incidence** Total 5/349 (1.43%) Mean 1.43% SD 0.98% Total 1/350 (0.29%)Mean 0.29% SD 0.76% #Skin: **Basal Cell Carcinoma** 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)(0%)0/50 (0%)0/50 (0%)0/50 (0%)0/49 3/50 (6%)0/50 (0%)**Overall Incidence** Total 3/349 (0.86%) Mean 0.86% SD 2.27% Total 0/350 (0%) Mean 0% SD 0% #Skin: Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS) 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)(0%)(0%)0/50 0/50 (0%)(0%)0/50 0/50 (0%)0/50 (0%)3/50 (6%)0/50 (0%)**Overall Incidence** 3/349 (0.86%) Mean 0.86% SD 2.27% Total 0/350 (0%) Mean 0% SD 0% Total

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^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F344

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION
Vehicle: AIR

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Report Date:11/17/2008

Length of Study: CHRONIC

			Male				Female	
#Skin: Basal Cell Carcinoma, B Tumor (benign, malignal								
rumor (semgn, mangnar	nt 01 1100), 01	0/50 (0%) 0/50 (0%) 4/50 (8%)	1/50 (2%) 1/50 (2%)	1/50 (2%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	8/349 (2.29%)	Mean 2.29%	SD 2.69%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Skin:		•••••	•••••			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
Basal or Sq. Cell Carcino or B), Basal Cell Adenon Papilloma, Keratoacanth	na, Adenoma,	Papilloma, Sq						
•	·	1/50 (2%) 0/50 (0%) 5/50 (10%)	5/50 (10%) 2/50 (4%)	2/50 (4%) 5/49 (10%)		1/50 (2%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	20/349 (5.73%)	Mean 5.74%	SD 4.27%	Total	3/350 (0.86%)	Mean 0.86%	SD 1.07%
#Skin: Fibroma								
		3/50 (6%) 4/50 (8%) 3/50 (6%)	3/50 (6%) 4/50 (8%)	5/50 (10%) 3/49 (6%)		2/50 (4%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	25/349 (7.16%)	Mean 7.16%	SD 1.56%	Total	4/350 (1.14%)	Mean 1.14%	SD 1.57%
#Skin: Fibroma, Fibrosarcoma, Fibrous Histiocytoma	Sarcoma, My	xoma, Myxosarcoma,	or					
• • •		3/50 (6%) 5/50 (10%) 6/50 (12%)	3/50 (6%) 5/50 (10%)	6/50 (12%) 4/49 (8%)		2/50 (4%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 1/50 (2%)	0/50 (0%) 2/50 (4%)
Overall Incidence	Total	32/349 (9.17%)	Mean 9.17%	SD 2.53%	Total	6/350 (1.71%)	Mean 1.71%	SD 1.8%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F344

II. NOV2000

Contract/Lab: All Laboratories Species: RATS

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Skin: Fibrosarcoma								
		0/50 (0%) 1/50 (2%) 3/50 (6%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	6/349 (1.72%)	Mean 1.72%	SD 2.14%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Skin: Fibrosarcoma, Sarcom Histiocytoma								
•		0/50 (0%) 1/50 (2%) 3/50 (6%)	0/50 (0%) 1/50 (2%)	1/50 (2%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	7/349 (2.01%)	Mean 2.01%	SD 2%	Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%
#Skin: Fibrous Histiocytoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Skin: Hemangioma								
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

131011. 11072000

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Skin: Hemangiosarcoma								
		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
#Skin: Keratoacanthoma					•••••			
		0/50 (0%) 0/50 (0%) 1/50 (2%)	4/50 (8%) 1/50 (2%)	0/50 (0%) 4/49 (8%)		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	10/349 (2.87%)	Mean 2.88%	SD 3.66%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Skin: Lipoma					•••••			
		2/50 (4%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	1/50 (2%) 2/49 (4%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	6/349 (1.72%)	Mean 1.73%	SD 1.82%	Total	0/350 (0%)	Mean 0%	SD 0%
#Skin: Liposarcoma					•••••			
·		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male		Female				
#Skin: Neural Crest Tumor									
		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		1/50 (2%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%	
#Skin: Neural Crest Tumor, Ma	llignant								
,	3	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
#Skin: Neurofibroma or Schwa					•••••				
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%	
#Skin: Neurofibrosarcoma or S					•••••				
	()	0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	
Overall Incidence	Total	2/349 (0.57%)	Mean 0.58%	SD 0.99%	Total	0/350 (0%)	Mean 0%	SD 0%	

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date:11/17/2008

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Species: RATS Strain: F344 Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

			Male		Fema	ale
#Skin: Neurofibrosarcoma, Neuro malignant or NOS)	ofibroma, or	Schwannoma (benign,				
manghant of 1100)		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 0/50 (0%) 1/49	(0%) (2%)	0/50 (0%) 0/50 0/50 (0%) 0/50 0/50 (0%)	(0%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.58% SD	0.99% Total	0/350 (0%) Mear	n 0% SD 0%
#Skin: Osteosarcoma						
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%) 0/49	(0%) (0%)	0/50 (0%) 0/50 0/50 (0%) 0/50 0/50 (0%)	(0%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD		0/350 (0%) Mear	
Skin: Sarcoma						
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%) 0/49	(0%) (0%)	0/50 (0%) 0/50 0/50 (0%) 0/50 0/50 (0%)	(0%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD		0/350 (0%) Mear	
Skin: Schwannoma Benign						
· ·		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 0/50 (0%) 0/49	(0%) (0%)	0/50 (0%) 0/50 0/50 (0%) 0/50 0/50 (0%)	(0%) 0/50 (0%) (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0% SD	0% Total	0/350 (0%) Mear	n 0% SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

2131011: 11012000

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

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(0%)

Mean 0%

0/50

(0%)

0/50

SD 0%

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Male Female #Skin: Schwannoma Malignant 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)(0%)(0%)0/50 0/50 (0%)1/49 0/50 (0%)0/50 0/50 (0%)(2%)1/50 0/50 (0%)SD 0.99% SD 0% Overall Incidence Total 2/349 (0.57%)Mean 0.58% Total 0/350 Mean 0% #Skin: **Squamous Cell Carcinoma** 1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)(0%)(0%)(0%)(0%)0/50 0/50 0/50 0/49 (0%)0/50 (0%)0/50 (0%)(2%)0/50 1/50 SD 0.76% **Overall Incidence** Total 1/349 (0.29%) Mean 0.29% SD 0.76% Total 1/350 (0.29%) Mean 0.29% #Skin: Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma 1/50 0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)0/50 (0%)(2%)0/50 (0%)0/50 (0%)(0%)0/50 (0%)0/50 (0%)0/50 (0%)3/50 (6%)1/50 (2%)**Overall Incidence** 4/349 (1.15%) Mean 1.14% SD 2.27% Total 1/350 (0.29%) Mean 0.29% SD 0.76% Total #Skin: **Squamous Cell Papilloma** 0/50 (0%)0/50 (0%)1/50 (2%)0/50 (0%)0/50 (0%)0/50 (0%)

(0%)

SD 0.76%

0/50

0/50

0/350 (0%)

Total

(0%)

(0%)

Total

(0%)

(0%)

(0.29%)

0/50

0/50

1/349

(0%)

Mean 0.29%

Overall Incidence

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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#Skin: Squamous Cell Papilloma or Overall Incidence #Skin: Squamous Cell Papilloma, Pacarcinoma or Keratoacantho	Total	0/50 0/50 0/50 1/349 (0	(0%) (0%) (0%) 0.29%)	0/50 0/50 Mean	(0%) (0%) n 0.29%	1/50 0/49 SD	(2%) (0%) 0.76%	Total	0/50 0/50 0/50 0/350	(0%) (0%) (0%) (0%)	0/50 0/50 Mea	(0%) (0%) n 0%	0/50 0/50 SD	(0%) (0%) 0%
Overall Incidence #Skin: Squamous Cell Papilloma, Pa	Total	0/50 0/50 0/50 1/349 (0	(0%) (0%) 0.29%)	0/50	(0%)	0/49	(0%)	Total	0/50 0/50	(0%) (0%)	0/50	(0%)	0/50	(0%)
#Skin: Squamous Cell Papilloma, Pa	apilloma, S	0/50 0/50 1/349 (0	(0%) (0%) 0.29%)	0/50	(0%)	0/49	(0%)	Total	0/50 0/50	(0%) (0%)	0/50	(0%)	0/50	(0%)
#Skin: Squamous Cell Papilloma, Pa	apilloma, S	0/50 1/349 (0	(0%) 0.29%) 		,		,	Total	0/50	(0%)		,		
#Skin: Squamous Cell Papilloma, Pa	apilloma, S	1/349 (0	0.29%)	Mean	0.29%	SD	0.76%	Total		` ,	Mea	n 0%	SD	0%
#Skin: Squamous Cell Papilloma, Pa	apilloma, S	·······		Mean			0.76%	ıotai	0/350	(0%)	iviea	in 0%	SD	0%
Squamous Cell Papilloma, Pa		Squamous (Cell											
		Squamous (Cell											
Ouromonia or recratoacantine	, iiiu													
		1/50	(2%)	4/50	(8%)	1/50	(2%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	4/49	(8%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)		(/		()		1/50	(2%)		()		()
Overall Incidence	Total	12/349	(3.44%)	Mean	3.45%	SD	3.25%	Total	2/350	(0.57%)	Mea	n 0.57%	SD	0.98%
#Skin:														
Squamous Cell Papilloma, Pa	apilioma, c			4/50	(00/)	4/50	(00/)		4/50	(00/)	0/50	(00()	0/50	(00/)
		0/50	(0%)	4/50	(8%)	1/50	(2%)		1/50	(2%)	0/50 0/50	(0%)	0/50	(0%)
		0/50 1/50	(0%) (2%)	1/50	(2%)	4/49	(8%)		0/50 0/50	(0%) (0%)	0/50	(0%)	0/50	(0%)
Overell Includes	Tatal		` '	M	0.470/	CD	0.400/	Tatal		` '	14	- 0.000/	CD	0.700/
Overall Incidence	Total	11/349	(3.15%)	iviean	3.17%	SD	3.48%	Total	1/350	(0.29%)	iviea	n 0.29%	20	0.76%
#Skin:														
Trichoepithelioma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)		(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)		()	-, -,	()		0/50	(0%)	,,,,,	()	,	(/
Overall Incidence	Total		0.29%)	Mean	0.29%	SD	0.76%	Total		(0.29%)	Mea	n 0.29%	SD	0.76%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups Route: INHALATION

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Species: RATS Strain: F344

Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
#Skin: Sebaceous Gland: Adenoma								
		0/50 (0%) 1/50 (2%) 2/50 (4%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	5/349 (1.43%)	Mean 1.43%	SD 1.51%	Total	0/350 (0%)	Mean 0%	SD 0%
#Skin: Sebaceous Gland: Carcinoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Skin: Sebaceous Gland: Carcinoma or Adenoma					• • • • • • • • • • • • • • • • • • • •			
		0/50 (0%) 1/50 (2%) 2/50 (4%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	5/349 (1.43%)	Mean 1.43%	SD 1.51%	Total	0/350 (0%)	Mean 0%	SD 0%
#Spinal Cord: Astrocytoma Benign					•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Spinal Cord: Astrocytoma Malignant								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Spinal Cord: Glioma Malignant								
Ü		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Spleen: Fibrosarcoma	•••••							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Spleen: Fibrous Histiocytoma				•••••				
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
*Spleen: Hemangioma								
		0/50 (0%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
Spleen: Hemangiosarcoma								
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Spleen: Leiomyosarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
Spleen: Sarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Species: RATS

Strain: F344

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
#Stomach, Forestomach: Leiomyosarcoma								
·		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma								
-		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Carcinoma	or Papillon	na Squamous						
	•	0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Stomach, Forestomach: Squamous Cell Papilloma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

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^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F344

Contract/Lab: All Laboratories

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
Stomach, Glandular: Leiomyosarcoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
verall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
Stomach, Glandular: Lipoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
estes: Adenoma								
		34/50 (68%) 42/50 (84%) 29/50 (58%)	36/50 (72%) 33/50 (66%)	38/50 (76%) 38/49 (78%)				
verall Incidence	Total	250/349 (71.63%)	Mean 71.65%	SD 8.54%				
Гhymus: Sarcoma								
		0/43 (0%) 0/49 (0%) 0/47 (0%)	0/49 (0%) 0/42 (0%)	0/48 (0%) 0/47 (0%)		0/46 (0%) 0/47 (0%) 0/44 (0%)	0/48 (0%) 0/50 (0%)	0/45 (0%) 0/46 (0%)
Overall Incidence	Total	0/325 (0%)	Mean 0%	SD 0%	Total	0/326 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

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^{#:} Denominator is number of animals necropsied

Strain: F344

Contract/Lab: All Laboratories Species: RATS

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Thymus: Thymoma Benign								
		0/43 (0%) 0/49 (0%) 0/47 (0%)	0/49 (0%) 0/42 (0%)	0/48 (0%) 1/47 (2%)		1/46 (2%) 0/47 (0%) 0/44 (0%)	0/48 (0%) 1/50 (2%)	0/45 (0%) 0/46 (0%)
Overall Incidence	Total	1/325 (0.31%)	Mean 0.3%	SD 0.8%	Total	2/326 (0.61%)	Mean 0.6%	SD 1.02%
Thymus: Thymoma Malignant					•••••			
		0/43 (0%) 0/49 (0%) 0/47 (0%)	0/49 (0%) 0/42 (0%)	0/48 (0%) 0/47 (0%)		0/46 (0%) 0/47 (0%) 0/44 (0%)	0/48 (0%) 0/50 (0%)	0/45 (0%) 0/46 (0%)
Overall Incidence	Total	0/325 (0%)	Mean 0%	SD 0%	Total	0/326 (0%)	Mean 0%	SD 0%
Thymus: Thymoma: Benign, Malig					•••••			
		0/43 (0%) 0/49 (0%) 0/47 (0%)	0/49 (0%) 0/42 (0%)	0/48 (0%) 1/47 (2%)		1/46 (2%) 0/47 (0%) 0/44 (0%)	0/48 (0%) 1/50 (2%)	0/45 (0%) 0/46 (0%)
Overall Incidence	Total	1/325 (0.31%)	Mean 0.3%	SD 0.8%	Total	2/326 (0.61%)	Mean 0.6%	SD 1.02%
Thyroid Gland: C-Cell: Adenoma					•••••			
		5/50 (10%) 1/50 (2%) 5/50 (10%)	3/50 (6%) 3/49 (6%)	2/50 (4%) 4/49 (8%)		3/50 (6%) 3/50 (6%) 3/50 (6%)	3/50 (6%) 2/50 (4%)	0/50 (0%) 3/50 (6%)
Overall Incidence	Total	23/348 (6.61%)	Mean 6.61%	SD 3%	Total	17/350 (4.86%)	Mean 4.86%	SD 2.27%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male			F	emale	
Thyroid Gland: C-Cell: Carcinoma								
		4/50 (8%)		/50 (2%)	1/50			/50 (2%)
		2/50 (4%) 2/50 (4%)	0/49 (0%) 3/	/49 (6%)	1/50 0/50		0 (2%) 2	2/50 (4%)
Overall Incidence	Total	13/348 (3.74%)	Mean 3.73%	SD 2.71%	Total 6/350	(1.71%) N	lean 1.71%	SD 1.38%
Thyroid Gland: C-Cell: Carcinoma or Adenoma	•••••							
		9/50 (18%)		/50 (6%)	4/50	()	- ()	/50 (2%)
		3/50 (6%) 6/50 (12%)	3/49 (6%) 7/	/49 (14%)	4/50 3/50	` ,	0 (6%) 5	5/50 (10%)
overall Incidence	Total	34/348 (9.77%)	Mean 9.77%		Total 23/350	,	Mean 6.57%	SD 2.51%
Гhyroid Gland: Follicular Cell: Adenoma								
		0/50 (0%)	` ,	/50 (2%)	0/50)/50 (0%)
		0/50 (0%) 0/50 (0%)	0/49 (0%) 1/	/49 (2%)	1/50 0/50	` ,	0 (0%) 0)/50 (0%)
overall Incidence	Total	2/348 (0.57%)	Mean 0.58%	SD 0.99%	Total 1/350	(0.29%) N	lean 0.29%	SD 0.76%
Thyroid Gland: Follicular Cell: Carcinoma								
		0/50 (0%)	2/50 (4%) 0/	/50 (0%)	0/50	0/50	0 (0%) 0)/50 (0%)
		1/50 (2%) 0/50 (0%)	0/49 (0%) 0/	/49 (0%)	0/50 0/50	` ,	0 (0%) 0	0/50 (0%)
Overall Incidence	Total	3/348 (0.86%)	Mean 0.86%	SD 1.57%	Total 0/350	(0%) N	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Thyroid Gland: Follicular Cell: Carcinoma or Adenoma								
		0/50 (0%) 1/50 (2%) 0/50 (0%)	2/50 (4%) 0/49 (0%)	1/50 (2%) 1/49 (2%)		0/50 (0%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	5/348 (1.44%)	Mean 1.43%	SD 1.51%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Tissue NOS: Lipoma				•••••				
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/49 (2%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.77%	Total	0/350 (0%)	Mean 0%	SD 0%
Tissue NOS: Paraganglioma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
FTissue NOS: Schwannoma Malignant								
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Tongue: Squamous Cell Carcinoma	a							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Tongue:	or Donillon	Caucamaua	•••••	•••••				•••••
Squamous Cell Carcinoma	a or Papillon	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
#Tongue: Squamous Cell Papilloma	•••••				•••••			
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	1/50 (2%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%
#Tooth: Adamantinoma Malignant					•••••			
Ç		0/50 (0%) 0/50 (0%) 1/50 (2%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
#Tooth: Odontoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
Urinary Bladder: Carcinoma	•••••							
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/349 (0%)	Mean 0%	SD 0%
Urinary Bladder: Carcinoma or Papilloma	• • • • • • • • • • • • • • • • • • • •							
		0/50 (0%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/349 (0%)	Mean 0%	SD 0%
Urinary Bladder: Leiomyosarcoma	•••••							
•		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/49 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Strain: F344

Toxicology Data Management System

Contract/Lab: All Laboratories

Species: RATS

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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			Male				Female	
Urinary Bladder: Papilloma								
•		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%) 0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%) 0/50 (0%)	0/50 (0%)	0/49 (0%)
Overall Incidence	Total	1/349 (0.29%)	Mean 0.29%	SD 0.76%	Total	0/349 (0%)	Mean 0%	SD 0%
Uterus: Adenoma								
						0/50 (0%)	0/50 (0%)	1/50 (2%)
						0/50 (0%)	0/50 (0%)	0/50 (0%)
Overall Incidence					Total	1/50 (2%)	Mean 0.57%	SD 0.98%
						2/350 (0.57%)		
Uterus: Carcinoma								
Garomoma						0/50 (0%)	0/50 (0%)	0/50 (0%)
						0/50 (0%)	0/50 (0%)	0/50 (0%)
						1/50 (2%)		
verall Incidence					Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%
Uterus: Deciduoma Benign								
· · · · · · · · · · · · · · · · · · ·						0/50 (0%)	0/50 (0%)	0/50 (0%)
						0/50 (0%)	0/50 (0%)	0/50 (0%)
						0/50 (0%)		00.007
verall Incidence					Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically #: Denominator is number of animals necropsied

Species: RATS

Strain: F344

Toxicology Data Management System

Contract/Lab: All Laboratories

Length of Study: CHRONIC

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)	0/50 (0%)
0/50 (0%)		
		0/50 (0%)
350 (0.29%)	Mean 0.29%	SD 0.76%
0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 1/50 (2%)
350 (0.29%)	Mean 0.29%	SD 0.76%
0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
350 (0%)	Mean 0%	SD 0%
0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
350 (0%)	Mean 0%	SD 0%
	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0.29%) Mean 0.29% 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 0/50 (0%)

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

Report Date:11/17/2008

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Species: RATS Strain: F344 Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

Male			Female	_
#Uterus: Polyp Stromal				
,		8/50 (16%) 12/50 (24%) 6/50 (12%)	13/50 (26%) 6/50 (12%)	9/50 (18%) 12/50 (24%)
Overall Incidence	Total	66/350 (18.86%)	Mean 18.86%	SD 5.87%
#Uterus: Sarcoma Stromal				
Sarcoma Stromai		2/50 (4%) 1/50 (2%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	4/350 (1.14%)	Mean 1.14%	SD 1.57%
#Uterus:			•••••	
Sarcoma Stromal or Polyp Stromal		10/50 (20%) 13/50 (26%) 6/50 (12%)	14/50 (28%) 6/50 (12%)	9/50 (18%) 12/50 (24%)
Overall Incidence	Total	70/350 (20%)	Mean 20%	SD 6.43%
#Uterus:	•••••			
Schwannoma Malignant		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/350 (0%)	Mean 0%	SD 0%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Species: RATS

Strain: F344

Toxicology Data Management System

Contract/Lab: All Laboratories

Tumor Incidence for Selected Control Animal Groups

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Report Date:11/17/2008

Route: INHALATION Vehicle: AIR

Length of Study: CHRONIC

			Male				Female	
#Vagina: Polyp								
						0/50 (0%) 0/50 (0%) 0/50 (0%)	2/50 (4%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence					Total	2/350 (0.57%)	Mean 0.57%	SD 1.51%
#Vagina: Sarcoma								
						1/50 (2%) 1/50 (2%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence					Total	2/350 (0.57%)	Mean 0.57%	SD 0.98%
#Zymbal's Gland: Adenoma								
		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		0/50 (0%) 0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)	0/50 (0%) 0/50 (0%)
Overall Incidence	Total	0/349 (0%)	Mean 0%	SD 0%	Total	0/350 (0%)	Mean 0%	SD 0%
#Zymbal's Gland: Carcinoma								
		0/50 (0%) 1/50 (2%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/49 (0%)		1/50 (2%) 0/50 (0%) 1/50 (2%)	1/50 (2%) 0/50 (0%)	1/50 (2%) 0/50 (0%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98%	Total	4/350 (1.14%)	Mean 1.14%	SD 1.07%

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied

Contract/Lab: All Laboratories

Species: RATS Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION Vehicle: AIR

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		Male			Female
#Zymbal's Gland: Carcinoma or Adenoma		0/50 (0%) 1/50 (2%) 0/50 (0%)	1/50 (2%) 0/50 (0%)	0/50 (0%) 0/49 (0%)	1/50 (2%) 1/50 (2%) 1/50 (2%) 0/50 (0%) 0/50 (0%) 0/50 (0%) 1/50 (2%)
Overall Incidence	Total	2/349 (0.57%)	Mean 0.57%	SD 0.98% Tota	` '

^{*:} Denominator is number of animals with tissues examined microscopically

^{#:} Denominator is number of animals necropsied